

PHENIX WEEKLY PLANNING



5/23/2013
Don Lynch

This Week

- Run 13 Continues: run support, general maintenance
- Scheduled maintenance Access yesterday:
 - DC HV MF replacement
 - PbSc work
 - DAQ work
- mRPC Test Lab (Formerly RPC Factory) Startup
- Ethane Trailer pre-liminary walkthru: (final walkthru when 1st trailer arrives before run 14)
- Continue VTX strip pixel stave prototype evaluation and production order placed
- Window Washer Winch order placed
- sPHENIX HCal prototype steel order pinned, out for bids
- Continue sPHENIX support
- Continue MPC-Ex design
- Future IR evolution modeling

Next Week

- Run 13 Continues: run support
- No Scheduled Maintenance next week?:
- next maintenance day: ?
- Ethane Tube Trailer Upgrade Continues: Procedure Approval
- mRPC Test Lab (Formerly RPC Factory): Walkthru done, actionitems addressed, procedure approval
- VTX strip pixel stave re-design prototype evaluation
- Continue sPHENIX support
 - HCal prototype
 - EMCal prototype design continuing
- MPC-Ex design for run 14
- Future IR evolution modeling - STAR and PHENIX eRHIC upgrades to be

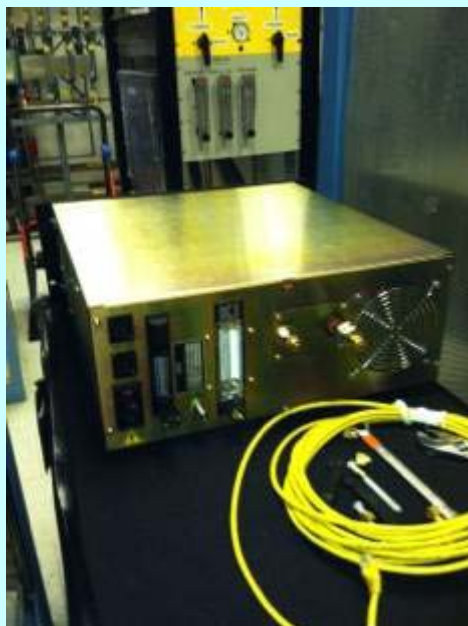


Ethane Trailer Project: In progress



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New Gas Analyzer Project (RPC recirculation and more)



5/23/2013

mRPC Test Lab Project

TECHNICAL SUPPORT



5/23/2013































VTX strip-pixel re-design:

1st preproduction test article assembled, evaluated, production parts ordered, 3 more preproduction test articles in progress, performance tests next week

5/23/2013



ID		Task Name	Duration	May							June				July				August				September				October				November				December				January						
				21	28	5	12	19	26	2	9	16	23	30	7	14	21	28	4	11	18	25	1	8	15	22	29	6	13	20	27	3	10	17	24	1	8	15	22	29	5	12	19		
67		assemble strpxl stave 25-28	1 wk																																										
68		assemble strpxl stave 29-32	1 wk																																										
69		assemble strpxl stave 33-36	1 wk																																										
70		assemble strpxl stave 37-40	1 wk																																										
71		assemble strpxl stave 41-44	1 wk																																										
72		Attach Sensors to West strpxl stave	25 days																																										
73		sensors on strpxl stave 21-24	1 wk																																										
74		sensors on strpxl stave 25-28	1 wk																																										
75		sensors on strpxl stave 29-32	1 wk																																										
76		sensors on strpxl stave 33-36	1 wk																																										
77		sensors on strpxl stave 37-40	1 wk																																										
78		Test West Strpxl ladders	25 days																																										
79		testing strpxl ladder 21-24	1 wk																																										
80		testing strpxl ladder 25-28	1 wk																																										
81		testing strpxl ladder 29-32	1 wk																																										
82		testing strpxl ladder 33-36	1 wk																																										
83		testing strpxl ladder 37-40	1 wk																																										
84		Strpxl laddr ready for Assembly	20 days																																										
85		strpxl ladder 21-24 ready for assembly	0 days																																										
86		strpxl ladder 25-28 ready for assembly	0 days																																										
87		strpxl ladder 29-32 ready for assembly	0 days																																										
88		strpxl ladder 33-36 ready for assembly	0 days																																										
89		strpxl ladder 37-40 ready for assembly	0 days																																										
90		Pixel	85 days																																										
91		Repaired ladders shipped from Japan	55 days																																										
92		Repaired ladders 1-4 shipped from Japan	1 wk																																										
93		Repaired ladder 5 shipped from Japan	1 wk																																										
94		Repaired ladders 6-7 shipped from Japan	1 wk																																										
95		Repaired ladders 8-9 shipped from Japan	1 wk																																										
96		Repaired ladders 10-11 shipped from Japan	1 wk																																										
97		Repaired ladders 12-13 shipped from Japan	1 wk																																										
98		Repaired ladders 14 shipped from Japan	1 wk																																										
99		Pxl ladder testing	80 days																																										



Existing vacuum bellows anti-squirm
In MPC S Cavity



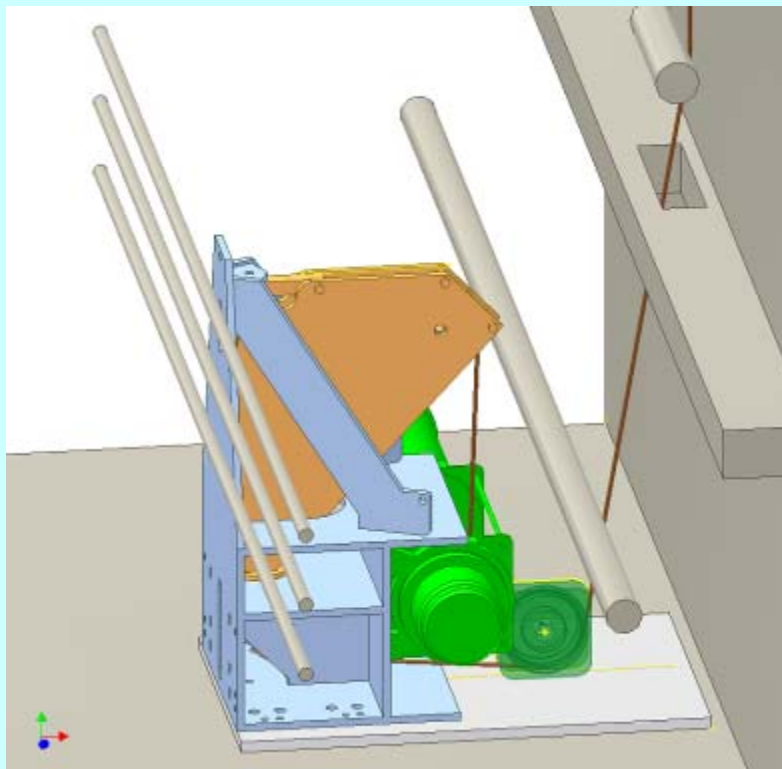
Proposed vacuum bellows anti-squirm in MPC S Cavity to
accommodate MPC-Ex



1st Tungsten Plate received: Inspection OK

Window Washer Winch Upgrade

TECHNICAL SUPPORT 2013



Purchase Order Placed

Attention: Donald Lynch

Company: Brookhaven National Lab

Phone: 631-344-2253

Based on the information provided to us for an AC hoist to be used for lifting, we are pleased to propose the following:

Line	Qty.	Product:	Net Each	Extended
1	1	Columbia HF2100-2A17-L-03 AC Electric Hoist <ul style="list-style-type: none"> 2.0 HP TEFC UL-listed brakemotor 230/3/60 input power Automatic, load-suspending braking system Permanently lubricated, high-efficiency planetary gear reduction Argent gray enamel paint finish Includes single speed low voltage controls <ul style="list-style-type: none"> Reversing motor starter in a NEMA 4X fiberglass enclosure UL-listed Includes NEMA 4X hand-held pendant control with UP/DOWN momentary contacts and up to 15' lead Does not include wire rope	\$5,022.00	\$5,022.00

Options:

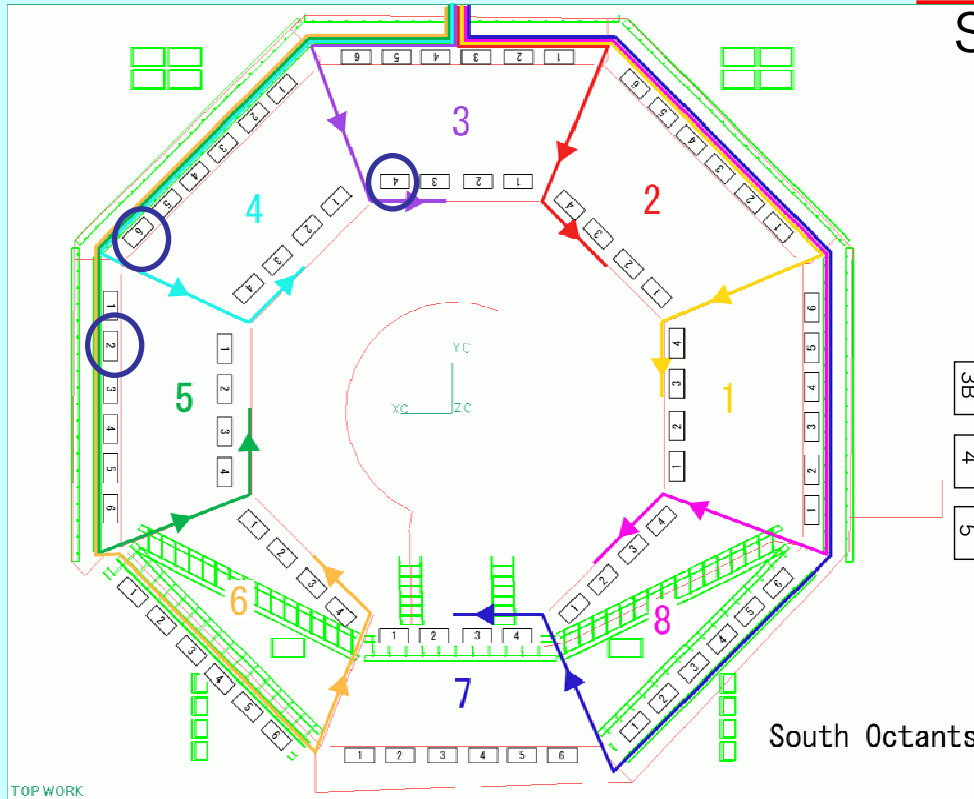
Line	Qty.	Product:	Net Each	Extended
2	1	AutoAdvance Line Spooler <ul style="list-style-type: none"> Designed and built for Columbia HF2100-2A17-L-03 Incoming line from front of spooler Fabricated steel frame Sheaves are steel construction, grooved for 3/8" line Ensures proper line spooling regardless of fleet angle Rope tension must be maintained for proper operation 	\$3,298.00	\$3,298.00

Line	Qty.	Product:	Net Each	Extended
3	1	VLS-6 Vertical Lead Sheave <ul style="list-style-type: none"> 6,000 lbs load limit Can be bolted down or welded for installation Fabricated steel construction Offset design allows for simple installation at any angle Bronze bushed steel sheave grooved for 3/8" wire rope 	\$458.00	\$458.00

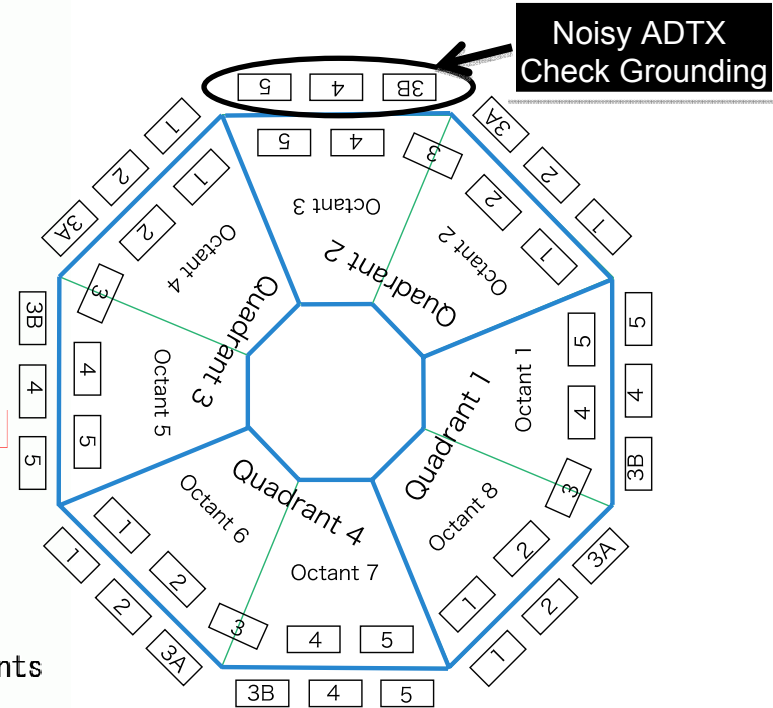
Line	Qty.	Product:	Net Each	Extended
4	1	Wire Rope <ul style="list-style-type: none"> 200' of 3/8" stainless steel wire rope (7x19 construction) with latching hook Supplied loose 	\$684.00	\$684.00

MuTr South Arm Areas to be accessed

Station-2,3

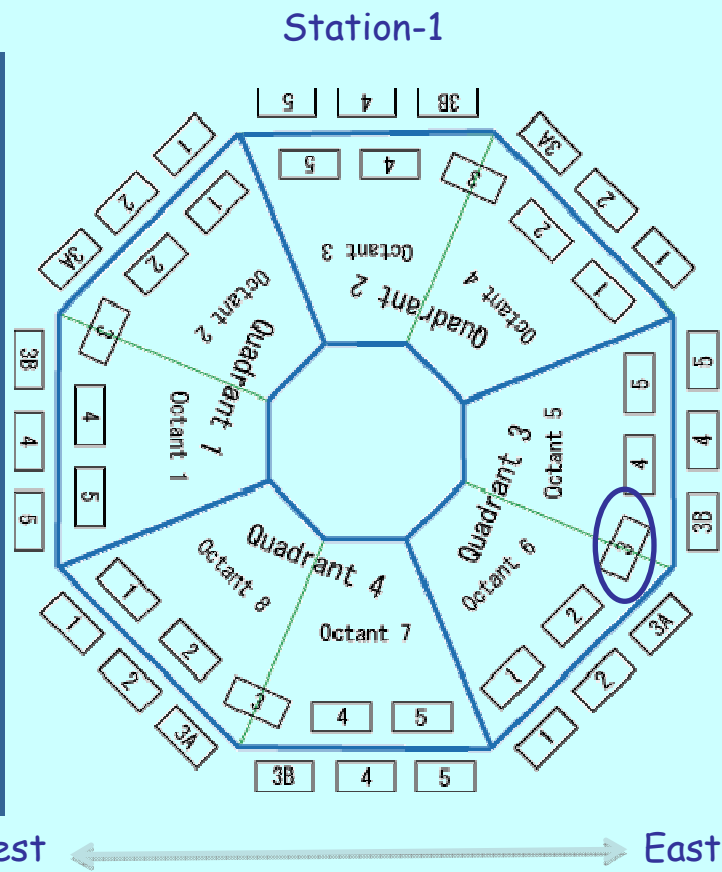
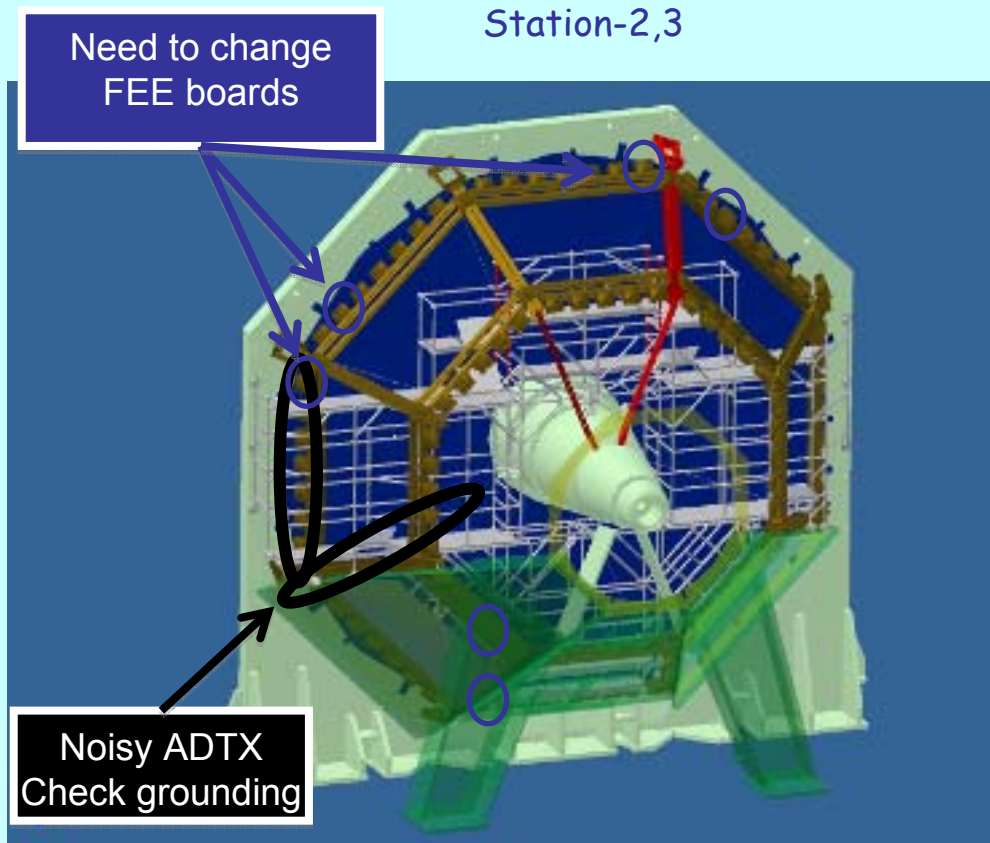


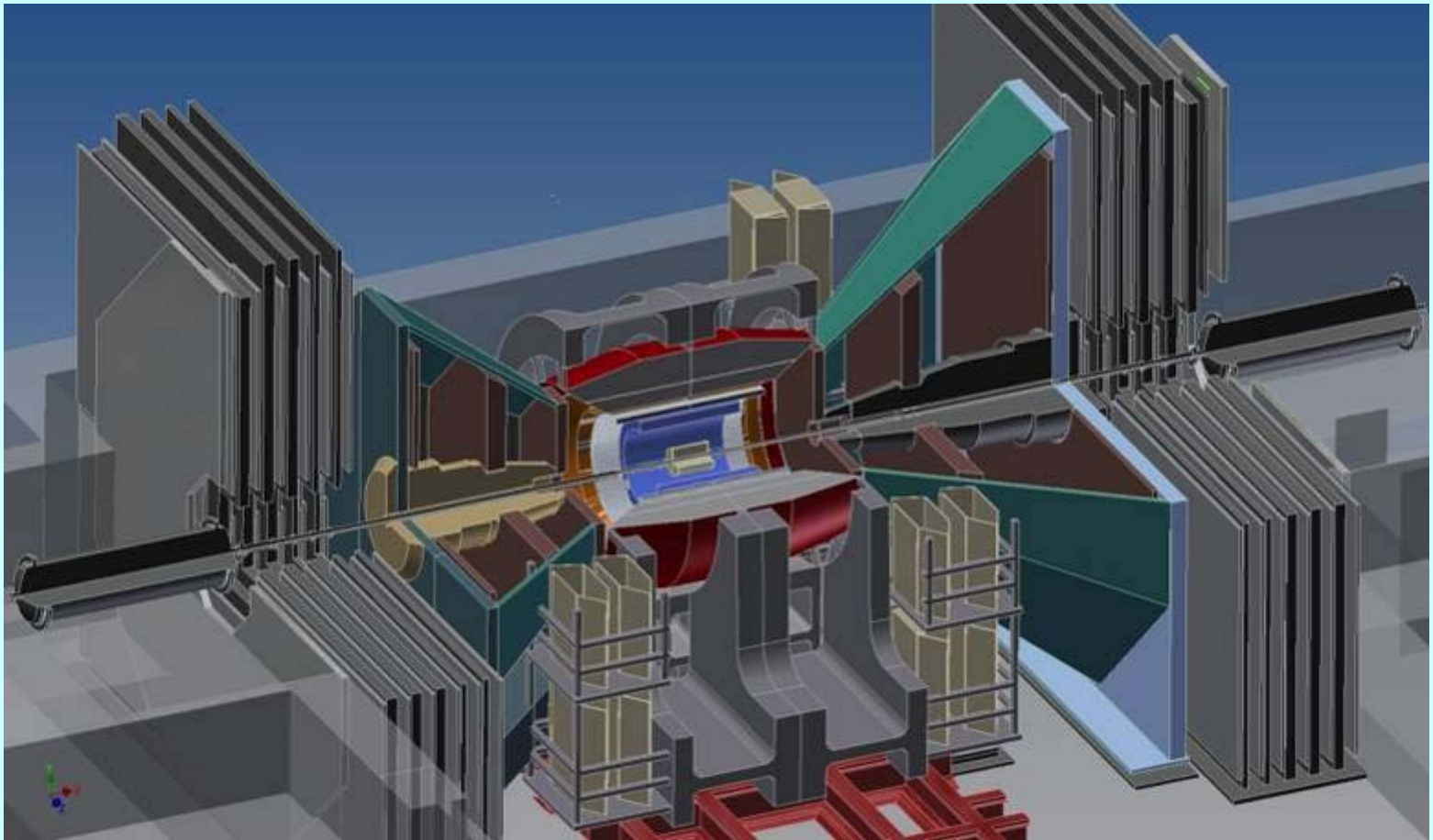
South Station-1 Chassis

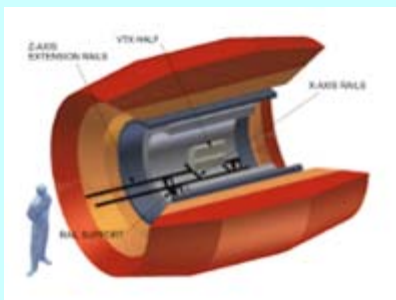


TECHNICAL SUPPORT NOW

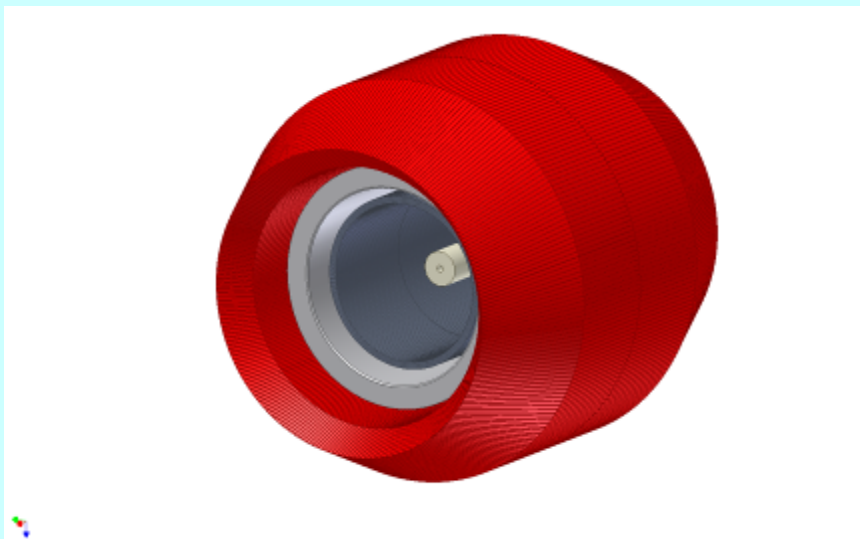
MuTr North Arm Areas to be accessed







Possible magnet change to available SC solenoid from SLAC. Will change all detector parameters



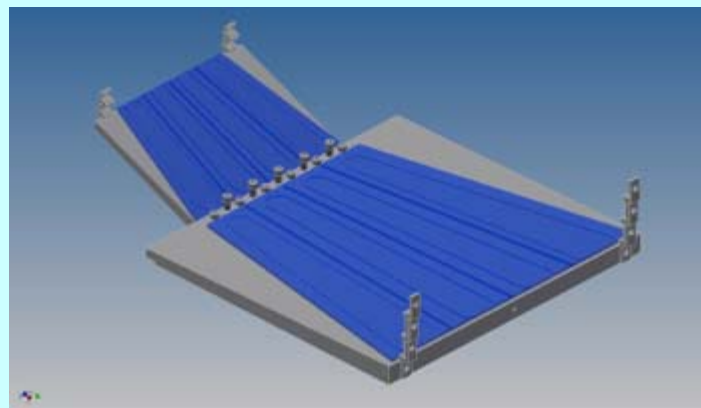
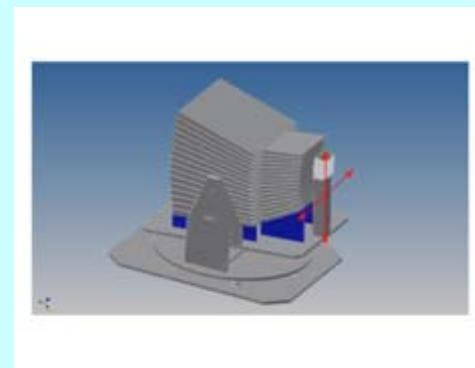
Using SLAC Cryostat HCal ID/OD/L goes from 2400/4400/4922 mm to 3710/5710/6820 mm

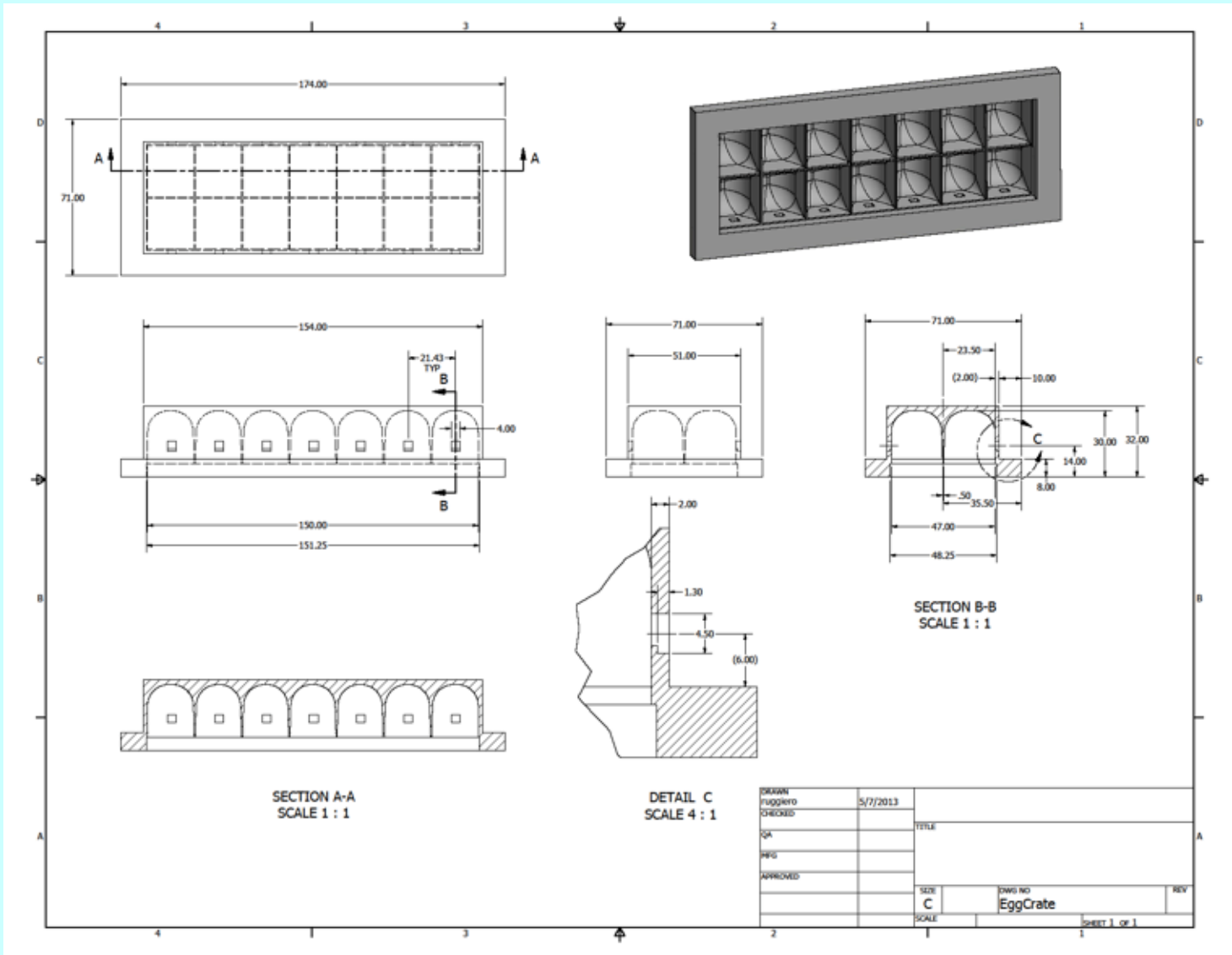
sPHENIX Proposed Upgrade

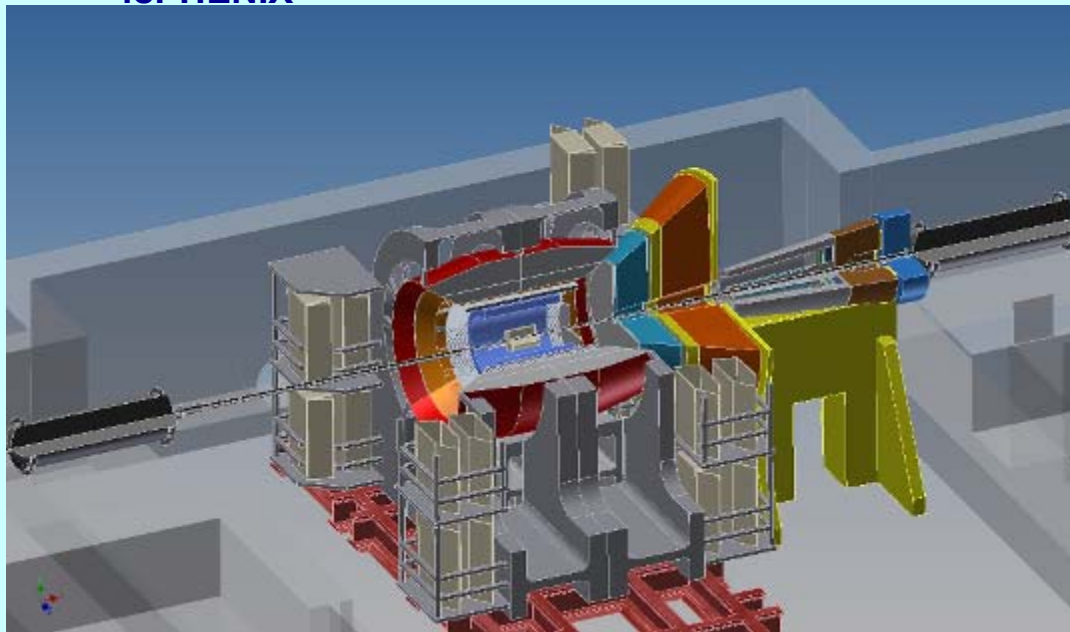
Work continues evaluating engineering tradeoffs for EMCal and HCal design, materials, etc.

Prototype HCal and EMCal in progress

Bid packages for Hcal steel and scintillators in progress to be issued this week

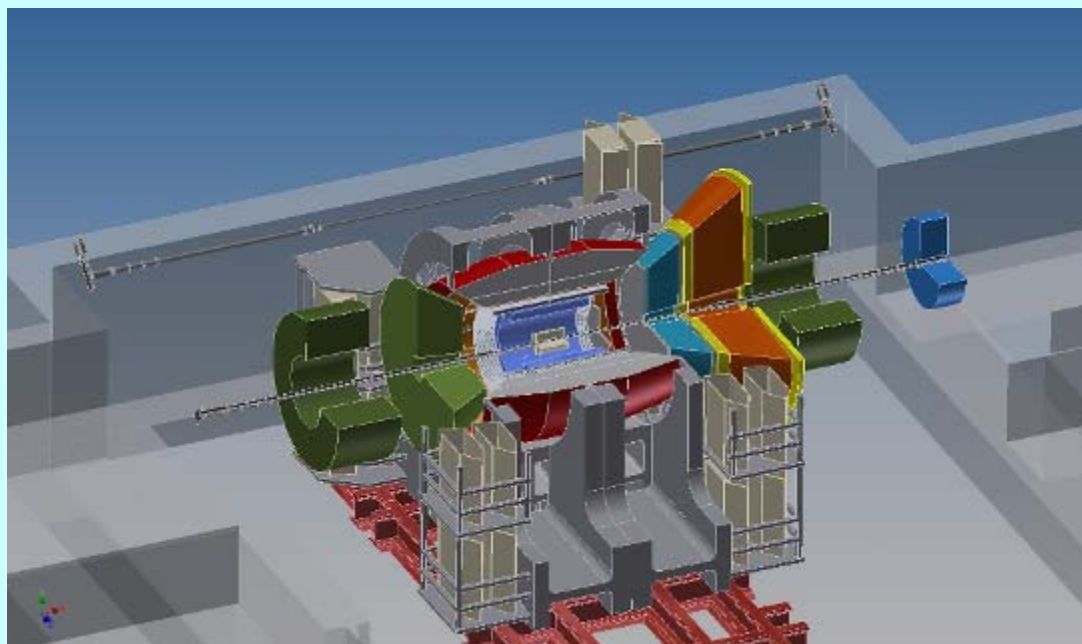






sPHENIX Collaborators meeting in Santa Fe this week. The Path from current PHENIX to sPHENIX evolving to fsPHENIX and ultimately to ePHENIX is beginning to be mapped out along with efforts to focus in on details of sPHENIX.

ePHENIX



Major Projects This Summer:

- VTX repairs/upgrades/general maintenance (Mike L.)
- DC East Window Replacement (Kenny J.)
- MPC-Ex Initial (partial) Installation (Jim L.)
- mRPC Tests in mRPC Test Lab (formerly RPC Factory) (Frank T.)
- sPHENIX Prototypes assembly & tests (All)
- MuTr troubleshooting and Repairs (Chris P.)
- Window Washer Winch upgrade (Jim L.)

Other Mechanical (TBD)

Other Electrical Projects

- HVAC Controls Upgrade (Frank T.)
- Complete Window Washer Controls Upgrade (Frank T.)

Other Electronics Projects

- Additional upgrading of ADAM system to MODBUS (Sal P.)
- Electronics research in support of sPHENIX and RATCAP (Sal P.)
- Lecroy HV communications upgrade (Sal P.)

Other Gas System Projects (TBD)

- RPC Gas Recirc. Upgrade (John T.)
- Drawing and Config. Control Improvements (SULI Student)

Other Infrastructure Projects (TBD)

Prep for 2013 shutdown	2/11-6/11/2013
Design, Fabricate MPC-Ex	
Define tasks and goals	
Analysis and design of fixtures, tools and procedures	
Fabricate/procure tools and fixtures	
Tests, mockups, prototypes	
Receive, fabricate, modify, finish installables	
Review and approval of parts, tools, fixtures and procedures	
Assembly and QA tests	
VTX Strippixel redesign	In-progress
VTX Strippixel 1 st article stave assembly	5/3/2013
VTX Strippixel 1 st article qualification/performance tests	5/17/2013
VTX strippixel stave production	5/20-8/30/2013
VTX Strippixel sensor reclamation	4/1-8/30/2013
VTX Strippixel ladder assembly	6/1-9/27/2013
Pixel Ladder repairs	in progress
End of Run Party	6/6/2013
Run 12 Ends	6/11/2013
Shutdown Standard Tasks	6/11-7/19/2013
• Open wall, disassemble wall, Remove MuID Collars,	
• Move EC to AH, etc.	
VTX/FVTX Post run tests	6/11-6/12/2013
Disassemble VTX/FVTX services	6/12-7/3/2013
July 4 th Holiday	7/4-7/2013
Remove VTX/FVTX and transport to Chemistry Lab	7/8/2013
Assemble, Test and Install MPC-Ex (North only?)	7/22-10/1/2013

TECHNICAL SUPPORT 2013

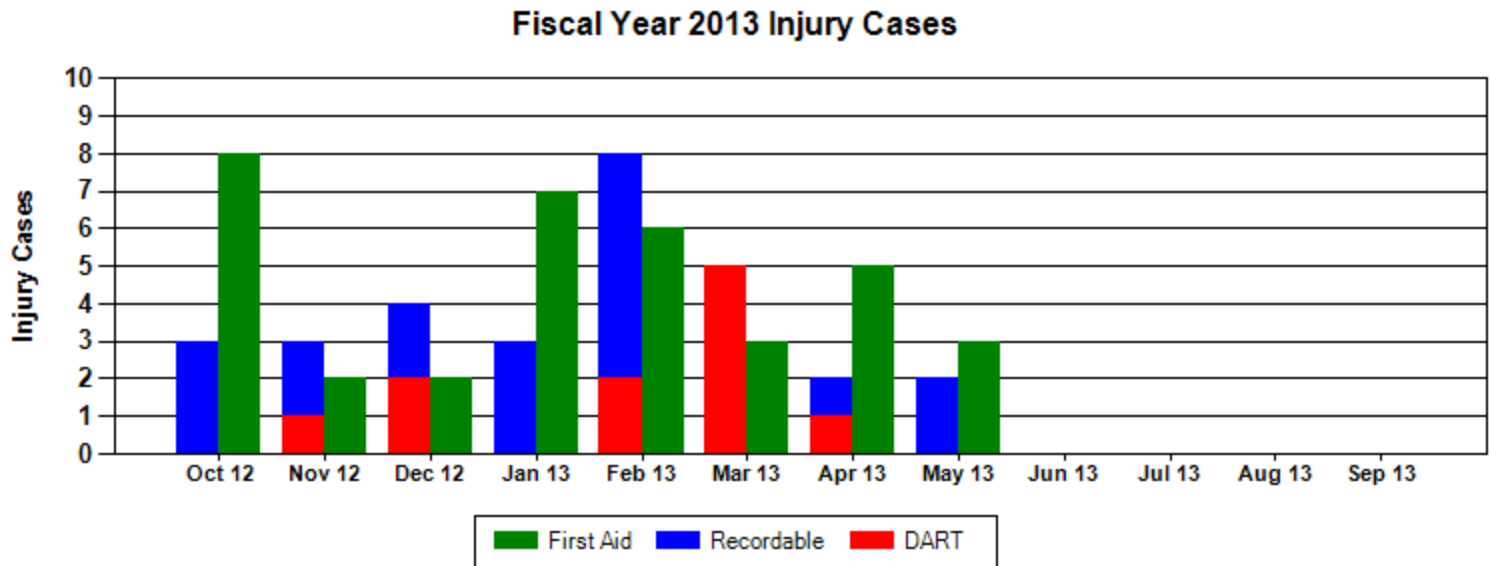
MuTR Troubleshooting, maintenance and repairs	7/22-9/27/2013
Summer Sunday (8/11) Prep and teardown	7/29-8/6/2013
Summer Sunday (RHIC)	8/4/2013
DC East Window Upgrade and Related Repairs	8/19-9/27/2013
sPHENIX HCal Prototype Assembly/test	8/19-10/15/2013
Labor Day Holiday	9/2/2013
Repair upgrade, reassemble VTX/FVTX (pixels and strip-pixels)	7/11-10/13/2013
Test, survey (at Chemistry and IR) and re-install VTX/FVTX	10/16-10/27/2013
Other detector maintenance as required	As required
Infrastructure maintenance as required	As required
TBD prototype tasks	As required
Pre-run commissioning and prep for run 14	11/1-12/31/2012
Veterans Day, Lab Holiday	11/11/2013
Prep for EC roll in	11/1-11/9/2013
Roll in EC	11/10-11/12/2013
Prep IR for run	11/1-11/30/2013
Thanksgiving Holidays	11/28-29/2013
Pink/Blue/White sheets	12/14-12/31/2013
Christmas Holiday	12/24-25/2013
New Year's Day Holiday	1/1/2014
Start run 14	1/2/2014

CPR Training: The next 2 CPR Training sessions are closed (full). Next available training dates are: Friday June 21 (1:30-4:30 PM and Wed. June 26 1:30-4:30)



BNL Occupational Injury Status

First Aid, DOE-Recordable, and DART Cases



YTD Cases	Rates	
DART:	11	0.65
Recordable:	30	1.64
First Aid:	36	N/A



TECHNICAL SUPPORT 2013

5/18/2013	Site Resources Division	An employee slipped while walking in sand, injuring the lower arm. The employee received prescription medication at the ER, making this recordable.	DOE Recordable
5/17/2013	Biosciences Department	A graduate student was transported to the ER with an illness. This was determined not to be work-related.	This injury is not included in the BNL rates. This is for information purposes only.
5/17/2013	Site Resources Division	An employee injured a leg dismounting from a vehicle. At the clinic, first aid was given.	First Aid
5/13/2013	Photon Sciences Directorate	An employee struck his finger against a sheet metal edge, lacerating his finger. At the ER, sutures were completed making this a recordable case.	DOE Recordable
5/13/2013	Site Resources Division	An employee working alone complained of muscle strain from custodial chores the next day...more later	First Aid

5/23/2013





Where To Find PHENIX Engineering Info



Memorial Day Next Monday May 27 is a Lab Holiday

- Originally known as Decoration Day, originated after the US Civil War to commemorate soldiers on both sides who died in the war
- First known observance in May 1865, Charleston Race Course
- Officially observed May 30 1968 by proclamation of General John A Logan
- Date chosen because it was not the anniversary of any battle.
- Irontown Ohio has longest continuously running Memorial Day Parade (since 1868)
- Became commonly called Memorial Day after WWI
- Became Officially Memorial Day by federal law in 1968 and then moved from May 30 to the last Monday in May.
- Proper Memorial Day Flag etiquette: Early morning: raise quickly to full mast then lower slowly and solemnly to half mast. At noon raise slowly to full mast.

Remember to Remember those who gave their lives so we can enjoy ours.

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm